

POCATOM

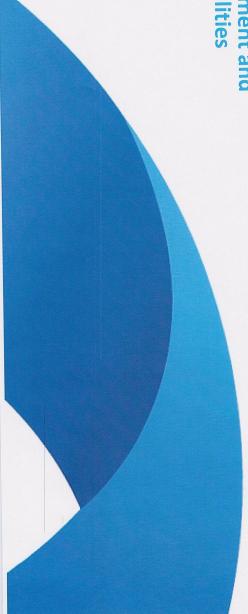
ГОСУДАРСТВЕННАЯ КОРПОРАЦИЯ ПО АТОМНОЙ ЭНЕРГИИ «РОСАТОМ»

ROSATOM STATE CORPORATION

Development of the System for Used Nuclear Fuel Management in the Russian Federation

E.Kudryavtsev, A.Khaperskaya
Project Office for UNF management and decommissioning of nuclear facilities

Moscow, 18 February 2011



NPP FLEET IN RUSSIAN FEDERATION - 24,24 GWte

VVER-440 – 6 units in operation until 2030, 2 units under decommissioning

LWRs and FRs in operation:

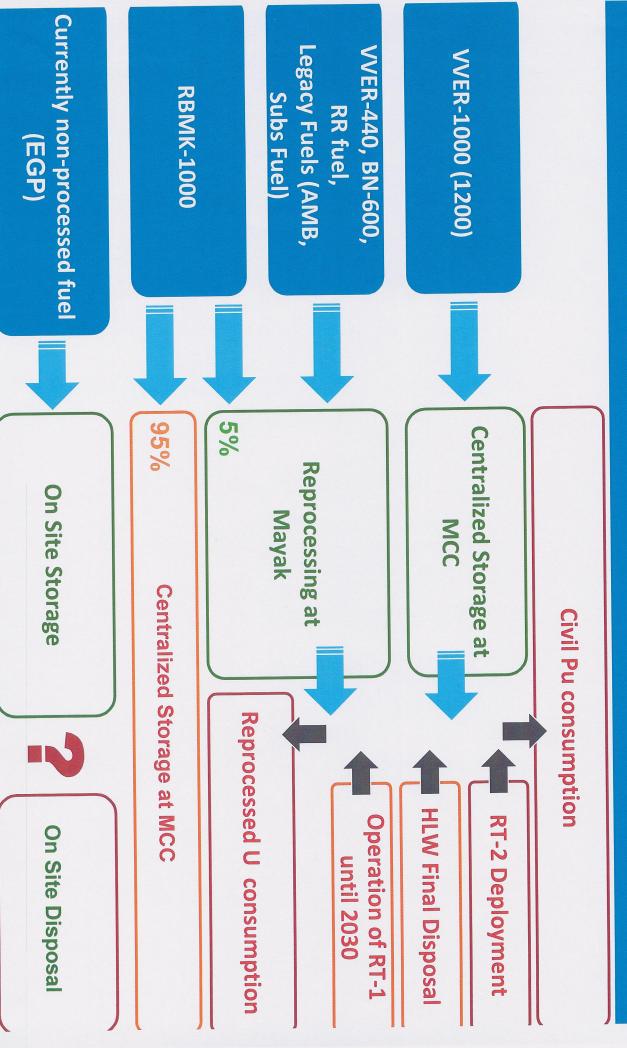
VVER-1000 - 10 units in operation, 11 units under construction

RBMK-1000 - 11 units in operation, decom starts after 2015

BN-600 - 1 unit in operation, BN-800 - one unit under construction BN-1200 — deployment of 1-3 units is planned for 2020-2030

EGP-6 in Bilibino – 4 units in operation, decom is planned for 2018-2021. Floating NPP is considered for replacement

TECHNOLOGICAL STRATEGIES FOR UNF MANAGEMENT





COMMISSINING of TESTING & DEMOSTRATION CENTRE (TDC)



COMMISSIONINF OF UNDERGROUND LAB



- TDC TEST OPERATION
- ASSESSMENT OF TECH&ECONOMIC PARAMETERS FOR THE INNOVATIVE TECHNOLOGY







 COMMISSIONING OF HLW DISPOSAL FACILITY

DESIGN OF LARGE SCALE REP PLANT RT-2 (II-D PHASE)

2010

\2011 \2012 \2013 \2014 \2015 \2016 \2017 \2018 \2019 \2020 \2021 \2022 \2023 \2024 \2025 \

2026

2027

2028



CONSTRUCTION OF RT-2 (II-D PHASE)



DECOMMISSIONING OF WET STORE AT MCC

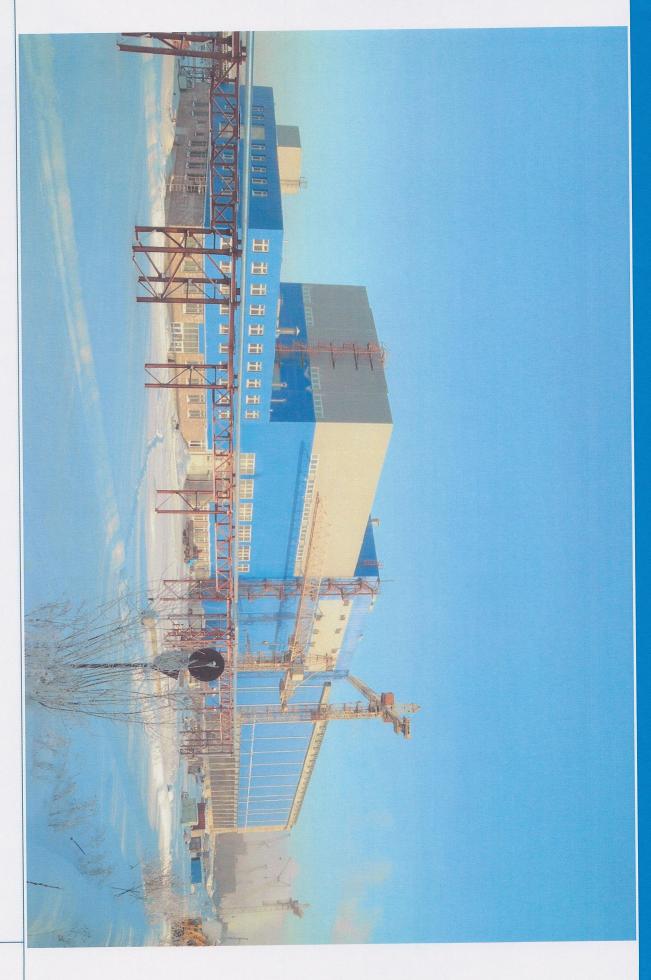


COMMISSIONING OF DRY STORE I-ST PHASE

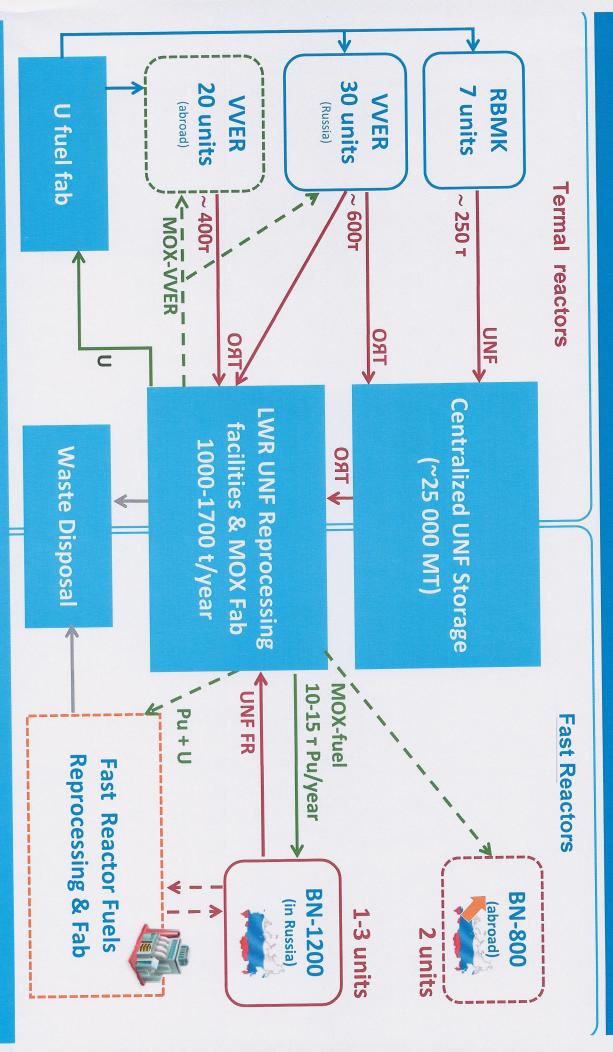


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I-ST STAGE OF DRY STORAGE FACILITY AT MCC SITE FOR 9200 MT (UO2)



INTERACTION OF TERMAL AND FAST REACTOR'S FUEL CYCLES



PROGNOSYS for ACCUMULATED AMOUNT of USED FUEL IN STORE

